

ABSTRACT OF THE DISCLOSURE

A method of manufacturing nanofibers which use self-organization which has a process of placing silicon microcrystal grains comprising the same element as the substrate on the surface of a substrate, a process of heating the previously noted substrate in a vacuum until the surface of the substrate reaches a melting temperature whereby, the surface of the previously noted substrate is a crystal face and the method of manufacturing nanofibers causes numerous nanowires to grow due to elements supplied from the substrate in the previously noted heating process by causing surface segregation to occur in the crystal faces which placed microcrystal grains causing nanofiber having a stem shaped structure